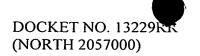
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## CLAIMS

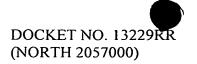
ノ	/.	A method		od	of	capturing	commun	associated				
inform	atio	n	(CAI)	of	а	communication	betwe	en a	subj	ect	and	an
associ	ate,	tŀ	ne met	hod	c	omprising the	steps	of:				

- intercepting the communication, the communication comprising at least one packet and each packet comprising CAI;
- providing an application identifier (AID) in the at least one packet of the communication, the AID identifying the format of the CAI;
- extracting in accordance with the AID the CAI from the at least one packet for reporting;
- determining whether the extracted CAI is a new instance of the CAI; and
- reporting a first message in response to a determination that the extracted CAI is the new instance of the CAI.
- 2. The method of Claim 1, wherein the method further comprises the steps of:
  - determining whether a given amount of time has elapsed between packets of the at least one packet of the communication, the packets being identified by the CAI; and
  - reporting a second message in response to a determination that the given amount of time has elapsed.

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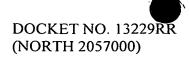
- 3. The method of Claim 2, wherein the second message comprises at least one of a subject identifier, a time stamp indicating when the message was sent, the IP address of the subject, a packet direction indicator identifying whether the message was sent or received by the subject, the IP address of the associate, a first instance indicator identifying the new instance of the CAI, and a counter indicating the number of packets identified by the CAI seen since a last message.
- 4. The method of Claim 1, wherein the method further 10 comprises the steps of:

determining whether a given number of packets of the at least one packet of the communication has been intercepted, the packets being identified by the CAI; and

reporting a third message in response to a determination that the given number of packets identified by the CAI has been intercepted.

- 5. The method of Claim 4, wherein the third message comprises at least one of a subject identifier, a time stamp indicating when the message was sent, the IP address of the subject, a packet direction indicator identifying whether the message was sent or received by the subject, the IP address of the associate, a first instance indicator identifying the new instance of the CAI, and a counter indicating the number of packets identified by the CAI seen since a last message.
  - 6. The method of Claim 1, wherein the AID is located in the Network Layer 3.

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- 7. The method of Claim 1, wherein the AID is located in the protocol field of the Network Layer 3.
- 8. The method of Claim 1, wherein the AID is located in the optional field of the Network Layer 3.
- 5 9. The method of Claim 1, wherein the method further comprises the step of:

providing an AID-tag in the at least one packet of the communication, the AID-tag indicating the presence of the AID.

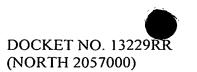
10 10. The method of Claim 1, wherein the method further comprises the steps of:

providing an AID-tag in the at least one packet of the communication, wherein the AID-tag indicates the presence of the AID, and wherein the AID-tag is located in the protocol field of the Network Layer 3.

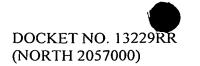
11. The method of Claim 1, wherein the first message comprises at least one of a subject identifier, a time stamp indicating when the message was sent, the IP address of the subject, a packet direction indicator identifying whether the message was sent or received by the subject, the IP address of the associate, a first instance indicator identifying the new instance of the CAI, and a counter indicating the number of packets identified by the CAI seen since a last message.

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- 12. A method of consolidating at least one packet of a communication between a subject and an associate, the method comprising the steps of:
  - receiving at least one packet of the communication, each packet comprising communication associated information (CAI);
    - determining whether a packet is a new instance of the CAI;
    - reporting the CAI in response to a determination that the packet is a new instance of the CAI; and
    - reporting the CAI periodically in response to a determination that the packet is a subsequent packet.
- 13. The method of Claim 12, wherein the step of determining whether a packet is a new instance of the CAI is performed by comparing the CAI with a previous CAI.
  - 14. The method of Claim 12, wherein the step of determining whether a packet is a new instance CAI is performed by allowing a given amount of time to elapse since the receipt of the at least one packet.
  - 15. The method of Claim 12, wherein the CAI report comprises at least one of a subject identifier, a time stamp indicating when the message was sent, the IP address of the subject, a packet direction indicator identifying whether the message was sent or received by the subject, an associate

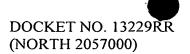


identifier, a first instance indicator identifying the new instance of the CAI, and a counter indicating the number of packets identified by the CAI seen since a last report.

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16. A method of providing access to communication associated information (CAI) of at least one packet of a communication between a subject and an associate, the method comprising the steps of:

providing an application identifier (AID) in the at least one packet, the AID indicating a format of the CAI in the at least one packet;

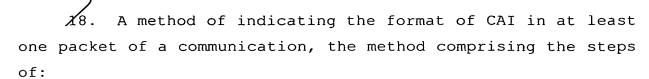
intercepting at least one of the at least one packet of the communication with the subject;

extracting in accordance with the AID the CAI from the packet;

formatting a message comprising at least a portion of the extracted CAI; and providing access to the message.

17. The method of Claim 16, wherein the message comprises at least one of a subject identifier, a time stamp indicating when the message was sent, the IP address of the subject, a packet direction indicator identifying whether the message was sent or received by the subject, an associate identifier, a first instance indicator identifying the new instance of the CAI, and a counter indicating the number of packets identified by the CAI seen since a last message.

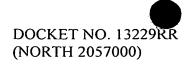
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providing an application identifier tag in the at least one packet, the application identifier indicating the presence of an application identifier and communication associated information (CAI); and

providing the application identifier in the at least one packet, the application identifier indicating the format of the CAI.

- 19. The method of Claim 18, wherein the application identifier tag is located in the protocol field of the Network Layer 3.
- 15 20. The method of Claim 18, wherein the application identifier is located in the optional field of the Network Layer 3.



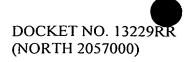
- 11. A method of indicating the format of communication associated information (CAI) in at least one packet of a communication by providing an application identifier in the least one packet.
- 5 22. The method of Claim 21, wherein the application identifier is located in the protocol field of the Network Layer 3.

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23. An apparatus for providing access to communication associated information (CAI) of a communication between a subject and an associate, the apparatus comprising:

means for intercepting the communication, the communication comprising at least one packet and each packet comprising CAI;

means for providing an application identifier (AID) in the at least one packet of the communication, the AID identifying the format of the CAI;

means for extracting in accordance with the AID the CAI from the at least one packet for reporting;

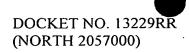
means for determining whether the extracted CAI is a new instance of the CAI; and

means for reporting a first message in response to a determination that the extracted CAI is the new instance of the CAI.

24. The apparatus of Claim 23, wherein the apparatus further comprises:

means for determining whether a given amount of time has elapsed between packets of the at least one packet of a communication, the packets being identified by the CAI; and

means for reporting a second message in response to a determination that the given amount of time has elapsed.





25. The apparatus of Claim 23, wherein the apparatus further comprises:

means for determining whether a given number of packets of the at least one packet of the communication has been intercepted, the packets being identified by the CAI; and

means for reporting an intermediate CAI message in response to a determination that the given number of packets of the at least one packet of the communication has been intercepted.

26. The apparatus of Claim 23, wherein the apparatus further comprises:

means providing an AID-tag in the at least one packet of the communication, the AID-tag indicating the presence of the AID.

27. The apparatus of Claim 23, wherein the apparatus further comprises:

means for providing an AID-tag in the at least one packet of the communication, wherein the AID-tag indicates the presence of the AID, and wherein the AID-tag is located in the protocol field of the Network Layer 3.

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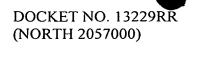
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of	a	com	nuni	cation	bet	ween	а	subject	and	an	asso	ociat	e,	the
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- means for receiving at least one packet of the communication, each packet comprising communication associated information (CAI);
- means for determining whether a packet is a new
  instance of CAI;
- means for reporting the CAI in response to a determination that the packet is the new instance of CAI; and
- means for reporting the CAI periodically in response to a determination that the packet is a subsequent packet.

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An apparatus for providing access to communication associated information (CAI) of at least one packet of a communication with a subject, the apparatus comprising:

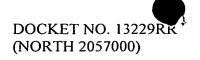
means for providing an application identifier (AID) in the at least one packet, the AID indicating a format of the CAI in the at least one packet;

means for intercepting at least one of the at least one packet of the communication with the subject;

means for extracting in accordance with the AID the CAI from the packet;

means for formatting a message from the extracted  ${\sf CAI}$ ; and

means for providing access to the CAI message.





An apparatus for indicating the format of communication associated information (CAI) in at least one packet of a communication, the method comprising the steps of: means for providing an application identifier tag in at least one packet, the application the identifier indicating the presence an application identifier and CAI; and means for providing the application identifier in packet, the least one application

identifier indicating the format of the CAI.

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